PATENT COOPERATION TREATY

RECEIVED MAR 8 9 2008 STOEL RIVES S.L.C.

From the INTERNATIONAL SEARCHING AUTHORITY

| JOHN R. THOMPSON STOEL REVES LLP 201 SO. MAIN STREET, SUITE 1100 ONE UTAN CENTER SALT LAKE CITY, UT 84111 | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OFINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DELLARATION (PCT Rule 44.1) | |
|--|---|--|
| | Date of mailing (day/month/year) | |
| Applicant's or agent's file reference | | |
| 36360/1.34 | FOR FURTHER ACTION See paragraphs 1 and 4 below | |
| International application No. PCT/US 09/31638 | International filing date (day/month/year) 22 January 2009 (22.01.2009) | |
| Applicant ENSIGN HOLDING, LLC | | |
| Filing of amendment of the state of the stat | 9: claims of the international applecation (see Rule 40): nto is normally two months from the date of transmittal of the PO, 34 chemin des Colombettes 10: 74 12 72 nd 19 13 accompanying sheet. Accompanying sheet. | |
| date (in some Offices even later); otherwise, the applicant must, acts for entry into the national phase before those designated Offices. | some designated Offices, a demand for international preliminary te entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed fices. In this (or later) will apply even if no demand is filed within 19 | |
| | March and and | |
| lame and mailing address of the ISA/US lail Stop PCT, Attn: ISA/US ormessioner for Fatients O: Box 1450, Alexandria, Virginia 22313-1450 | Authorized officers Lee W. Young | |

PCT Helpdrisk: 571-272-4300 PCT OSP: 571-272-7774

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING ALTHORITY

| To: JOHN R. THOMPSON STOEL RIVES LLP 201 SO. MAIN STREET, SUITE 1100 ONE UTANT CENTER SALT LAKE CITY, UT 84111 | PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) | | |
|--|---|--|--|
| | Date of mailing 0 6 MAR 2003 | | |
| Applicant's or agent's file reference 36360/1,34 | FOR FURTHER ACTION See paragraphs 1 and 4 below | | |
| International application No. PCT/US 09/31638 | International filing date (day/month/year) 22 January 2009 (22.01.2009) | | |
| Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the | 19: claims of the international application (see Rule 46) | | |
| When? The time limit for filing such amendme international search report. Where? Directly to the International Bureau of Wi | ents is normally two months from the date of transmittal of the | | |
| 1211 Geneva 20, Switzerland, Facsimile 1 For more detailed Instructions, see the notes on the | No.: +41 22 740 14 35 | | |
| 2. The applicant is hereby notified that no international | search report will be established and that the declaration under f the International Searching Authority are transmitted herewith. | | |
| 3 With regard to the protest against payment of (an) ad | ditional fee(s) under Rule 40.2, the applicant is notified that | | |
| the protest together with the decision thereon h applicant's request to forward the texts of both t | has been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices. | | |
| no decision has been made yet on the protest, the | ne applicant will be notified as soon as a decision is made. | | |
| 4. Reminders | | | |
| Shortly after the expiration of 18 months from the priori international Bureau. If the applicant wishes to avoid or p application or of the program claim part resets to be before | ty date, the international application will be published by the ostpone publication, a notice of withdrawal of the international | | |

application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis 1 and 90bis 3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the The applicant tray submit comments on an informal basis on the written opinion of the international Nearthing Authority to the international Bireau. The international Bireau will need a copy of sach comments to all designated Offices unless an international bireau will not be not so to be established. These comments would also be made available to the public but not before the expansion of 30 months from the promy date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later), otherwise, the applicant must, within 20 months from the priority date, perform the presembed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

| _ | The state of the s | (4) |
|-------|--|--------------------------------|
| N C P | Arme and mailing address of the ISA/US tail Stop PCT, Ath: ISA/US and the ISA/US O: Box 1450, Aexamets, Virginia 22313-1450 | Authorized officer/Lee W Young |
| L | acsimile No. 571-273-3201 | PCT OSP: 571-272-7774 |

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

see Form PCT/ISA/220

(PCT Article 18 and Rules 43 and 44)

FOR FURTHER

Applicant's or agent's file reference

| 36360/1.34 | ACTION | as wel | l as, where applicable, item 5 below |
|--|--|---------------------------------|---|
| International application No. PCT/US 09/31638 | International filing date (day) | month/year) | (Earliest) Priority Date (day/month/year) |
| Applicant | 22 January 2009 (22.01.2009) | | 17 March 2008 (17.03.2008) |
| EŃSIGN HOLDING, LLC | | | |
| according to Atticle 14. A copy is be | ing transmitted to the Internationa | I Searching / I Bureau | Authority and is transmitted to the applicant |
| This international search report consist It is also accompanied by | sts of a total of sheets. y a copy of each prior art documen | t cited in this | report. |
| Basis of the report | | | |
| | he international search was carried | | asis of: |
| the international ap | oplication in the language in which | it was filed | |
| a translation furnis | international application into hed for the purposes of internation | | |
| authorized by or notified | to this Authority under Rule 91 (F | Rule 43.6 <i>bis</i> (a | |
| c. With regard to any nucle | otide and/or amino acid sequenc | e disclosed in | the international application, see Box No. 1 |
| Certain claims were fou | nd unsearchable (see Box No. 11) | | |
| 3. Unity of invention is lac | king (see Box No. III). | | |
| With regard to the title, | | | |
| the text is approved as sul | | | |
| the text has been establish | ed by this Authority to read as fol | lows | |
| | | | |
| With regard to the abstract, | | | |
| the text is approved as sub | mitted by the applicant. | | |
| the text has been established may, within one month from | ed, according to Rule 38.2(b), by t in the date of mailing of this intern | his Authority ational search | as it appears in Box No IV. The applicant report, submit comments to this Authority. |
| With regard to the drawings, | | | |
| a the figure of the drawings to be | published with the abstract is Figu | ire No. 5 | |
| as suggested by the a | | - | MANAGEMENT OF THE PARTY OF THE |
| as selected by this Ar | thority, because the applicant fail | ed to suggest | a figure. |
| as selected by this As | thority, because this figure better | | |
| b none of the figures is to be | published with the abstract. | | |

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 09/31638

| IPC(8) - USPC - | SSIFICATION OF SUBJECT MATTER H04K 1/00 (2009.01) 713/186 to International Patent Classification (IPC) or to both | national classification and IPC | | | | |
|---|---|--|------------------------------------|--|--|--|
| | | | | | | |
| Minimum d USPC - 713 | ocumentation searched (classification system followed b 3/186 | y classification symbols) | | | | |
| | ton searched other than minimum documentation to the v/150, 168, 170, 182, 186, 189, 726/2, 4, 21, 27, 28 s | | fields searched | | | |
| Dialog Class Terms searc | ata base consulted during the international search (name ic (Chinese Pat Abstr, Derwent Index, EPFT, French I thed: BIOMETRIC, CHRONOLOGICAL, CONFIDENCI ROBABILIT, QUALITY, RANGE, RESTRICTED, STA | Pat, Jap Abstr, USPFT, WIPO/PCT PFT); Go E LEVEL, CORRELAT, LEVEL, MEASURE, | ogle Scholar NON-PUBLIC, ORDER, | | | |
| C. DOCU | MENTS CONSIDERED TO BE RELEVANT | | | | | |
| Category* | Citation of document, with indication, where | appropriate, of the relevant passages | Relevant to claim No. | | | |
| X | US 6,681,029 B1 (Rhoads) 20 January 2004 (20.01.2 | | 1-28, 32, 34-37 | | | |
| Υ | 1-6, col 8, ln 59 to col 9, ln 7; col 9, ln 15-17, 31-33; col 11, ln 1-8; col 12, ln 53-57; col 13, ln 15- Y 9, col 19, ln 20-22; col 23, ln 7-12, 24-38, -161; col 35, ln 54-60; col 40, ln 31-36; col 54, ln 10 -14, col 58, ln 1-5; col 64, ln 63-67; col 93, ln 22-43 | | | | | |
| Υ | US 7,113,616 B2 (Ilo et al.) 26 September 2006 (26.6 8, in 64 to col 9, in 11 | 09.2006); entire document, especially: col | 29-31, 45-50 | | | |
| Y | US 2006/0171571 A1 (Chan et al.) 03 August 2006 (i para (0022) | 03.08.2006); entire document, especially: | 33, 38-44 | | | |
| | | | | | | |
| Furthe | r documents are listed in the continuation of Box C. | П | | | | |
| "A" docume to be of | categories of cited documents nt defining the general state of the art which is not considered particular relevance | the principle or theory underlying the ii | stion but cited to understand | | | |
| "E" carifer application or patent but published on or after the international filing date "C" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone. | | | | | | |
| cited to establish the publication date of another citation or other "v" document of particular relevance, the claimed investion cannot be considered to involve an animative step when the document is considered to involve an animative step when the document is combined with one or more other such documents, such combination being obvious to a person shalled in the art | | | | | | |
| P" document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed | | | | | | |
| | ctual completion of the international search 2009 (24.02.2009) | Date of mailing of the international searce | h report | | | |
| Name and mailing address of the ISA/US Authorized offices | | | | | | |
| | 571-273-3201 | PCT Helpdesk, 571-272-4300 PCT OSP 571-272-7774 | | | | |
| orm PCT/ISA | /210 (second sheet) (April 2007) | | | | | |

DATENT COOPERATION TREATY

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| rom the | INIC AUTUC | DETTY | | |
| INTERNATIONAL SEARCHING AUTHORITY To: | | XIII | 1 PCT | |
| JOHN R. THOMPSO | | | | |
| 201 SO. MAIN STR | EET, SUIT | E 1100 | | UTTEN OPINION OF THE |
| ONE UTAH CENTE SALT LAKE CITY, U | | | INTERNAT | IONAL SEARCHING AUTHORITY |
| OAET BAKE OTTI, | | | | (PCT Rule 43bis.1) |
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| | | | Date of mailing | 1157) 0000 |
| | | | (day/month/year) | 0 6 MAR 2009 |
| Applicant's or agent's file re | ference | | FOR FURTHER A | |
| 36360/1.34 | | | | See paragraph 2 below |
| International application No. | | International filing date | | Priority date (day/month/year) 17 March 2008 (17.03.2008) |
| PCT/US 09/31638 | | 22 January 2009 (2 | | 17 March 2006 (17.03.2006) |
| International Patent Classific IPC(8) - H04K 1/00 (20 | cation (IPC) c 009.01) | r both national classifica | tion and IPC | |
| USPC - 713/186 | | | | |
| Applicant ENSIGN HO | LDING, LL | U | | |
| | | | | |
| 1. This opinion contains in | dications rela | ating to the following iter | ns: | |
| Box No I B | asis of the op | inion | | |
| Box No. II Pr | riority | | | |
| Box No. III N | ion-establish | nent of opinion with rega | rd to novelty, inventiv | e step and industrial applicability |
| Box No. IV L | ack of unity o | of invention | | |
| Box No V R | easoned state stations and e | ment under Rule 43bis.1(eplanations supporting st | a)(i) with regard to not ich statement | velty, inventive step or industrial applicability |
| Box No. VI C | ertain docum | ents cited | | |
| Box No. VII C | ertain defects | in the international appl | ication | |
| Box No. VIII C | ertain observ | ations on the internation: | al application | |
| | | | | |
| 2 FURTHER ACTION | | | | |
| International Preliminar other than this one to be | ry Examining e the IPEA at | Authority ("IPEA") exce | pt that this does not ap notified the Internation | be considered to be a written opinion of the oply where the applicant chooses an Authority hal Bureau under Rule 66 1bis(b) that written |
| If this opinion is, as pro- | vided above, | considered to be a written | opinion of the IPEA, | the applicant is invited to submit to the IPE/ of 3 months from the date of mailing of Form |
| For further options, see | | | morny date, whicheve | er expires later |
| | | | | |
| 3. For further details, see n | notes to Form | PCT/ISA/220 | 2 | |
| Name and mailing address of | fthe ISA/IIS | Date of completion of t | his opinion | Authorsed officer / 1 - 1 |
| Mail Stop PCT, Attn: ISAUS Commissioner for Patents P.O. Box 1450, Alexandria, Virgin | | 25 February 2009 | | PCT Helpdesk: 571-272-4300 |
| Facsimile No. 571-273-3201 | | | | PCT OSP 571-272-7774 |

Form PCT/ISA/237 (cover sheet) (April 2007)

International application No PCT/US 09/31638

| Box | No. I | Basis of this opinion | |
|-----|--------------------------------------|---|--|
| 1. | X the | nd to the language, this opinion has been established on the basis of international application in the language in which it was filed ranslation of the international application into inslation furnished for the purposes of international search (Rules 12.3(a) | which is the language of a pand 23.1(b)) |
| 2. | The to | is opinion has been established taking into account the rectification of an this Authority under Rule 91 (Rule $43bis.1(a)$) | a obvious mistake authorized by or notified |
| 3. | With rega establishe a. type o | a sequence listing | mational application, this opinion has been |
| | b. forma | table(s) related to the sequence listing t of material on paper in electronic form | |
| | c time o | filing/furnishing contained in the international application as filed contained in the international application in electronic form filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search | |
| 4. | 61 | addition, in the case that more than one version or copy of a sequence list ed or furnished, the required statements that the information in the subsect the application as filed or does not go beyond the application as filed, as | ment or additional copies is identical to that |
| 5. | Additiona | l comments: | |
| | | | |

International application No

PCT/US 09/31638

to the state of th

| Box No | . V | Reasoned statement un citations and explanati | ons supporti | ng such statement | |
|--------|----------------------------|--|--------------|-------------------|-------|
| ı Sı | atemen | ıt | | | |
| | Nima | Ity (N) | Claims | 29-31, 33, 38-50 | YES . |
| | 14046 | ny (14) | Claims | 1-28, 32, 34-37 | NO |
| | Inver | tive step (fS) | Claims | None. | YES |
| | | | Claims | 1-50 | NO |
| | Industrial applicability (| trial applicability (IA) | Claims | 1-50 | YES |
| | 111040 | | Claims | None. | NO NO |
| | | | | | |
| | | | | | |

Citations and explanations:

Claims 1-28, 32, and 34-37 lack novelty under PCT Article 33(2) as being anticipated by US 6,681,029 B1 (Rhoads)

Regarding claim 1, Rhoads discloses a method of authentication (col 19, in 20-22), the method comprising: obtaining from a user a plurality of first measurements corresponding to a first biometric parameter (col. 12, in 53-57; col.64, in 63-67), wherein at least some of the first measurements are obtained at different times (col 11, In 1-8); obtaining from the user a plurality of second measurements corrosponding to a second biometric parameter (cot 12, in 53-57; cot 64, in 63-67), wherein at least some of the second measurements are obtained at different times (col 11, In 1-8); analyzing the plurality of first measurements to obtain a first correlation value (col 9, In 15 17); analyzing the plurality of second measurements to obtain a second correlation value (col 9, in 15-17); combining the first and second measurements into a first composite dataset in which the first measurements are weighted according to the first correlation value and the second measurements are weighted according to the second correlation value (col 13, In 15-19); obtaining a first test measurement corresponding to the first biometric parameter (col 7, In 1-6; col 64, In 63-67); obtaining a second test measurement corresponding to the second biometric parameter (col 7, In 1-6; col 64, In 63-67); and providing a confidence level of user authentication based on a comparison of the first and second test measurements with the first composite dataset (col 8, in 59 to col 9, in 7; col 23, in 7-12, 34-38).

Regarding claim 2, Rhoads discloses the method of claim 1 as applied above. Rhoads further discloses further comprising granting the user access to a first restricted destination if the confidence level is above a first threshold value (col 23, in 34-38, col 35, in 54-60, col 40,

Regarding claim 3, Rhoads discloses the method of claim 2 as applied above. Rhoads further discloses further comprising denying the user access to a second restricted destination if the confidence level is above the first threshold value and below a second threshold value (col 23, in 34-38; col 35, in 54-60; col 40, in 31-36).

Regarding claim 4, Rhoads discloses the method of claim 1 as applied above. Rhoads further discloses further comprising supplementing the plurality of first measurements with the first test measurement if the confidence level is above a first threshold value (col 7, in 1-6, col 40. In 31-36).

Regarding claim 5, Rhoads discloses the method of claim 4 as applied above. Rhoads further discloses further comprising augmenting regarding camino, randous discusses the interior or camino above. Introdus randous business random comprising adjustming the plurality of second measurements with the second test measurement if the confidence level is above the first threshold value (col 7, in 1-6, col 40, ln 31-36).

Regarding claim 6, Rhoads discloses the method of claim 4 as applied above. Rhoads further discloses further comprising withholding the second test measurement from augmenting the plurality of second measurements if the confidence level is above the first threshold value and below a second threshold value (col 23, in 41-61; col 40, in 31-36)

Regarding claim 7, Rhoads discloses the method of claim 1 as applied above. Rhoads further discloses further comprising, analyzing the first test measurement in combination with the plurality of first measurements to obtain a third correlation value (col 9, in 31-33); and supplementing the plurality of first measurements with the first test measurement if the confidence level is above a threshold value and the third correlation value is within a predetermined range (col 7, In 1-6; col 40, In 31-36).

Regarding claim 8, Rhoads discloses the method of claim 7 as applied above. Rhoads further discloses further comprising withholding the first test measurement from supplementing the plurality of second measurements if the confidence level is above the threshold value and the third correlation value is outside the predetermined range (col 23, in 41-61; col 40, in 31-36).

Regarding claim 9, Rhoads discloses the method of claim 1 as applied above. Rhoads further discloses wherein said analyzing of the plurality of first measurements comprises weighting the first measurements according to the chronological order in which the first processor or makine according to comprisors weighting the makine according to and the chooling according to the thickness of the makine according to the thickness of the thickness of the makine according to the thickness of the

International application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box No. V.2. Citations and explanations:

Regarding claim 10, Rhoads discloses the method of claim 9 as applied above. Phoads further discloses wherein said analyzing of the plurality of second measurements comprises weighting the second measurements according to the chronological droof in which the second measurements were obtained such that a newer measurement is weighted more heavily than an oldior measurement (cd 59, n 1 -

Regarding cleim 11, Rhoads discloses the method of claim 1 as applied above. Phoads further discloses wherein said comparison of the first and second test measurements with the first composite dislaset coron; rest, combining a weighted version of the first and second compassite dislaset, wherein weighting of the first term seasoners in staked on the first correlation value and weighting of the second compassite of the first correlation value and weighting of the second compassite of the first correlation value and weighting of the second compassite dislates (and 18, 10 stakes). The second compassite dislates (and 18, 10 stakes) are second compassite dislates (and 18, 10 stakes) are second compassite dislates (and 18, 10 stakes).

Regarding claim 12, Rhoads discloses the method of claim 1, wherein said obtaining from a user a plurality of linst measurements includes enrolling the user with respect to the first biometric parameter and said obtaining from a user a plurality of second measurements includes enrolling the user with respect to the second biometric parameter (col. 54, in 10-41; col. 64, in 63-67).

Regulating claim 13, Rhouds foscioses a method of authentication, the method comprising claim 13, Rhouds foscioses a method of authentication, the method comprising claim (2), and the measurements are obtained at different times (cci 11, 11, 1-8); obtaining from the user a plurality of second measurements are obtained at different times (cci 11, 11, 1-8); obtaining from the user a plurality of second measurements corresponding to a second borresponding properties (cc) 11, 11, 1-8); obtaining from the user a plurality of second measurements are obtained at least considerable (cc) 11, 11, 1-8); obtaining from the user a plurality of second measurements are obtained at least considerable (cc) 11, 1-10,

Regarding claim 14, Rhoads discloses the method of claim 13 as applied above. Rhoads further discloses further comprising granting the user access to a restricted destination if the confidence level is above a threshold value (col 23, in 34-38; col 35, in 54-60; col 40, in 31-

Regarding claim 15, Rhoads discloses the method of claim 13 as applied above. Rhoads further discloses further comprising supplementing the pitrality of lists measurements with the first test measurement and supplementing the pitrality of second measurements with the second test measurement in the confidence level is above a threshold value (or 1, in 14c, or 04, in 31-36).

Regarding skim 16, Rhoads discloses the method of claim 13 as applied above. Phoads buther discloses further comprising comparing the lest correlation value with a potentermed range, and supplementing the plurality of life measurements with the first test measurement with the first test measurement with the first test measurement with value (so V. In 15, co. 40, p. 13–196.)

Regarding claim 17, Rhoads discribers the method of claim 13 as applied above. Rhoads further discloses wherein said analyzing a combination of the physiting of first insequentials and the list est emissurement to obtain the list correlation value comprises weighing the list immeasurements and the first test measurement according to the chronological order in which said measurements were obtained such that a newer measurement is weighted more heavily than an other measurement (ord 58, In 1-5), and wheren said similarlying a combination of the plurality of second measurements and the second less inseation of the plurality of second measurements with the second less inseation to the chronological order in which said measurements weighted more heavily than of other measurement of 58, In 1-5).

Regarding claim 18, Rhoads discloses the method of claim 13 as applied above. Rhoads further discloses wherein said combination of the plurally of lots measurements and the plurally of lots of the plurally of lots. The survivance is obtained by weighting the plurally of lists measurements according to the first correlation value and weighting the plurally of second measurements according to the second correlation value (col 13, in 15-19).

Regulating claim 19. Rhouds discloses a method of authentication, the method comprising, obtaining from a user a first comparison distance comprising a purally of lists reassurements of a since bit bornetic parameter (col. 12, in 5.9.7.° col. 4). fi. 5.9.7°, where neach first measurement is a sociated with a time at which the measurement was obtained (col. 11, in 1-9); obtaining from the user a second comparison distance comprising a plantingly discond measurement of a second beameric parameter (col. 12, in 5.9.7°, col. 6). In 58-7); wherein each second measurement associated with a time at which his measurement was obtained (col. 11, in 1-9); obtaining a list set disassection associated with a fixed set which the measurement was obtained (col. 11, in 1-9); obtaining a list set disassection and sociated with a fixed text (col. 6). In 50, col. 11, in 1-10; obtaining a list set was second associated with a fixed text (col. 6). In 50, col. 11, in 1-10; obtaining a list set was second comparison disassets and a composite distance (col. 8). In 90 (col. 9), in 7); and comparing the list and second comparison disassets and a composite distance (col. 8), in 90 (col. 9), in 7); and comparing the list and second less disassets with the composite distance (col. 8), in 90 (col. 9), in 7); and comparing the list and

Regarding claim 20, Rhoads discloses the method of claim 19 as applied above. Rhoads further discloses further comprising updating the first compansion dataset to include the first test dataset and updating the second compansion dataset to include the second test dataset if the confidence feet is above a threshold value (cd. 7, In 1-6, cd 40, in 31-36).

International application No. PCT/US 09/31638

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box No. V.2. Citations and explanations

Regarding claim 21, Rhoads discloses the method of claim 19 as applied above. Rhoads further discloses wherein combining the first and second companion disasset in its composite disasset comprises analyzing at least the first companion disasset to obtain a first control of the companion disasset to obtain a first control of the companion disasset to obtain a first companion disasset to obtain a first companion disasset to obtain a first companion of the companion disasset to the companion disasset based on the first companion value (col 58, in 1-5); and weighing at least the second companion disasset based on the first companion of companion disasset based on the control companion disasset based on the first companion disasset based on the first companion disasset based on the disasset consistent of companion disasset based on the first companion disasset

Regarding claim 22. Rhoads discloses the method of claim 21 as applied above. Rhoads further discloses wherein said analyting at least the first companion distains or comprises weighting he list measurements according to the chronological order in which said measurements weighted more heavily than an order measurement (out 56, in 1-5), and said analyzing at least the second comparison distains comprises weighting the second measurements of the chronological order in which a measurements were obtained such that a never measurement is weighted more heavily than an other measurement of the control of the chronological order in which a measurement and order obtained such that a never measurement is weighted more heavily than an other measurement of the control of the chronological order in which a measurement of the control of the chronological order in which are the control of the chronological order in which are the chronological order in which are controlled to the chronological order in which are chronical order in which are chronological o

Regarding claim 12, Privacts discloses the method of claim 21 as applied above. Phodast burther discloses wherein said analyzing all least the test companion disaste to claim the test companion disaste to claim the test companion disaste that the test companion disaste that the test companion disaste that the second companion disaste that the second companion disaste (col 2), in 31-33), and said analyzing a lessit the second comparison disaste (col 2) in 31-33), and said analyzing a lessit the second companion disaste (col 2) in 31-33.

Regulating claim 24, Rhoads discloses a method of authentication as applied above. Rhoads further discloses the method comprising obtaining from au user a plurality of first measurements of a list to biometer parameter (ed. 12, in. 5.3.7°, col. 6.1, 6.8.6.7°), wherein all less some of the first measurements are obtained at different times (ed. 11, in. 1.4); obtaining from the user a plurality of second measurements of a second bovering parameter (ed. 22, in. 2.4.7°, col. 2.4.7°), and the second control of the second disclose of the second disclo

Regarding claim 25, Rhoads discloses the method of claim 24 as applied above. Rhoads further discloses further comprising supplementing the plurality of first measurements with the first test measurement and supplementing the plurality of second measurements with the second test measurement if the contridence level is above a threshold value (or 26, 3, m 8-43e, or 36, in 54-90, or 30, m 8-13e).

Regarding parm 26, Phoads discloses the method or claim 24 as applied above. Phoads further discloses wherein statistical analysis of the plurally of list or measurements yeals as size value and statistical analysis of the plurally of scored measurements yeals as excored value that is smaller than the list value (cot 14, in 9-12, cd 33, in 59-64), and wherein company in this as one of the disclose of the resourcement with the size of the control of the

Regarding clam 27. Rhoads discloses a method for authenticating a user (col. 19, in 20.22), the method comprising obtaining from the user a first measurement of a list biometic parameter (or. 12, in 5.35°, col. 64, in 5.36°), and a surface obtained in the control biometic parameter (col. 12, in 5.35°), and is surfaced in the special obtained in the special obtained parameter (col. 13, in 1.63°), and a second measurement of list biometic parameter is officered in the special obtained in the special obtaine

Regarding claim 28, Rhoads discloses the method of claim 27 as applied above. Rhoads further discloses further comprising granting the user access to a restricted destination it the confidence level is above a threshold value (col 23, in 34-38, col 35, in 54-80, col 40, in 31-36).

Regarding claim 32, Rhoads discloses the method of claim 27 as applied above. Rhoads further discloses wherein the third measurement of the lifet biometric parameter and the third measurement of the second bometric parameter are combined into a weighted combination that is compared with the weighted combination that is compared with the weighted combination of the first measurements and second measurements (of 13, in 15-19).

Regarding claim 34, Rhoads discloses the method of claim 32 as applied above. Rhoads further discloses wherein the third measurement of the list biometric parameter is weighted according to a degree of agreement between the list and second measurements of the first biometric parameter (col 13, in 15-19).

Regarding clam 36, Rhouds discloses the method of claim 32 as applied above. Phosat surther discloses wherein the first biometric parameter is more idealy to unsquely identify an endividual hans it she second informatre parameter, and wherein the irst, second, and their measurements of the first biometric parameter are more heavily weighted than the first, second, and third measurements of the second of t

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Regarding claim 36, Rhoads discloses the method of claim 27 as applied above. Rhoads further discloses wherein each of the first bometic parameter and second bometic parameter is selected from the group consisting of fin

Regularing claim 37, Rhoads discloses a system for authenticating a user (col. 19, in 20-22), the system comprising, a first device configured to Obtain one or more reason-suments of a first bornetic parameter (col. 11, in 5-97, or 16, in 6-927), a second device configured to obtain one or more measurements of a second bornetic parameter that is different from the first biomatic parameter (col. 15, in 5-97, or 16, in 6-927), a second or 15, in 5-97, col. (col. in 6-937, or 16, or 10-927), and col. (col. 15, in 5-12, or 12, in 5-93, or 16, in 6-937), and col. (col. 11, in 1-12, col. 12, in 5-93, or 16, in 6-937), and coll in 6-937, or 16, in 6-9

Claims 29-31, and 45-50 leck an inventive step under PCT Article 33(3) as being obvious over Phoads in view of US 7,113,616 B2 to to et al. (hereinafter "Ito").

Regarding claim 29, Rhoads discloses the method of claim 27 as applied above. Rhoads further discloses further comprising if the confidence level is above a threefed visible (col 21), in 34-39, cell, of in 31-36). However, Rhoads does not explicitly disclose updating a template based on the hird measurements if the confidence level is above a threefold value. However, Indices disclose further comprising updating a interplate based on the hird measurements if the confidence level is above a threefold value (or is, if of loc of 0) fr. (11) if would have been obvious to one having outdoors yould miss of the disclosure of updating a template based on the fluid in the confidence level is above a threefold value (or is, if of loc of 0) fr. (11) if would have been obvious to one having outdoors yould not seen obvious to one having outdoors you have a confidence level in claim 27 further comprising if the confidence level is above a threefold value to provide the method with positive levelable.

Regarding claim 30, Phoads and to leach the method of claim 29 as applied above. Rhoads further discloses further comprising colorising a fourth measurement of the second biometric parameter (cot 12, in 53-57; cot 64, in 63-67) within a fourth period of limit (cot 11, in 1-18), and companing the fourth measurements with a weighted combination of all least the second of measurements with a weighted combination of all least the second of measurements and the third measurements (cot 13, in 15-19), wherein the finite finaturements are more heavily

Regarding claim 31, Rhoads and Ito teach the method of claim 30 as applied above. Rhoads buther discloses wherein the fourth measurements in second measurements were compared with a weighted combination of the first measurements, for escend measurements are more heavily weighted than the second measurements are second measurements are more heavily weighted than the first measurements (co.58). It is second measurements are more heavily weighted than the first measurements (co.58) and the second measurements are more heavily weighted than the first measurements (co.58) and the second measurements are more heavily weighted than the first measurements (co.58) and the second measurements are more heavily weighted than the first measurements (co.58) and the second measurements are more heavily weighted than the first measurements (co.58). It is second measurement and the second measurement are more heavily weighted than the first measurements are more heavily weighted that the first measurements are more heavily weighted than the first measurements are more hea

Regarding claim 45, Rhoads discloses a method of authentication (col 19, In 20-22), the method comprising comprising a first set of information regarding a first biometric parameter (col 12, In 53-57; col 64, In 63-67) and a second set of information regarding a second biometric parameter (col 12, In 53-57; col 64, In 63-67), authenticating a user one or more times (col 19, In 20-22); eltering a first fusion parameter regarding the first set of information as a result of authenticating the user one or more times (col 93, in 22-43), altering a second fusion parameter regarding the second set of information as a result of authenticating the user one or more times (cot 93, in 22-43); obtaining a third set of information regarding the first biometric parameter (col 12, in 53-57, col 64, in 63-67), obtaining a fourth set of information regarding the second biometric parameter (col 12, in 53-57, col 64, in 63-67); comparing the third and lourth sets of informawith a weighted version, wherein the first set of information is weighted according to the first fusion parameter end the second set of information is weighted according to the second fusion parameter in the weighted (col 13, In 15-19), and providing a confidence level of user authentication based on said comparing of the third and fourth sets of information with the weighted version of the template (col 8, In 59 to col 9, In 7, col 23, In 7-12, 34-38). However, Rhoeds does not explicitly disclose providing a template comprising a first set of information regarding a first biometric parameter and a second set of information regarding a second biometric parameter. However, Ito does disclose providing a template comprising a first set of information regarding a first biometric parameter and a second set of information regarding a second biometric parameter (col 8, in 64 to col 9, in 11). It would have been obvious to one having ordinary skill in the art to add ito's disclosure of providing a template comprising a first set of information regarding a first biometric parameter and a second set of information regarding a second biometric parameter to Rhoads' disclosure of a method of authentication, the method comprising: comprising e first set of information regerding a first blometric parameter and a second set of information regarding a second biometric parameter; authenticating a user one or more times, altering a first fusion parameter regarding the first set of information as a result of authenticating the user one or more times; altering a second fusion parameter regarding the second set of information as a result of authenticating the user one or more times; obtaining a third set of information regarding the first biometric parameter; obtaining a fourth set of information regarding the second biometric parameter; compering the third end fourth sets of informetion with a weighted version, wherein the first set of information is weighted according to the tirst fusion peremeter and the second set of information is weighted according to the second fusion parameter in the weighted; and providing a confidence level of user authentication based on said compering of the third and fourth sets of information with the weighted version of the template to provide a predeveloped format for comparing the sets of information

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Regarding claim 46, Phoads and lio teach the method of claim 45 as applied above. Rhoads further discloses further comprising altering the first fusion parameter based on the third set of information and altering the second fusion parameter based on the fourth set of information if the confidence level is sufficient to identify the test subject as the user (or §), in 22-43), an 22-43,

Regarding claim 47. Recads discloses a method of subherliciting a user (cot 19, ip 0.02), the network consisting a plurally of list measurements being a fair bribbringing, parameter (cot 21, in 1.6), cot 41, in 0.02 (in 1.6), the measurement of the first binomic parameter (cot 21, in 1.6), cot 41, in 0.03 (in 1.6), comparing the test measurement of the first binomic parameter (cot 17, in 1.6), cot 41, in 0.03 (in 1.6), comparing the test measurement of the first binomic parameter (cot 17, in 1.6), cot 41, in 0.03 (in 1.6), cot 0.03 (in 1.6

Regarding claim 48, Rhoads and be teach the method of claim 47 as applied above. Rhoads further discloses further comprising graning the user access to the second fractricted destination 4 flow conditions to what is above the second threshold value (col 25, in 34-39, col 35, in 54-80; col 40, in 31-39) and denging the user access to a third restricted destination 1 the conditionals relieve to below in the threshold value (col 22, in 34-36; col 35, in 54-60; col 40, in 31-30).

Regarding claim 49, Rhoads and to teach the method of claim 47 as applied above. Rhoads further discloses wherein the template further comprises a plurality of second measurements obtained from the usor, the plurality of second measurements being of a second bornetic parameter (or 21; in 3-37, ce 64, in 3-367), and wherein the method unforce comprises obtaining a last inseasurement of the second bornetic parameter (or 1, in 1-5, col 64, in 6-367), and comparing the test measurement of the second bornetic parameter with the template to obtain the confidence when of user authentication (of 8, in 69 to 0, in 7, or 20, in 7, 1-20, 3-30).

Regarding claim 50, Rhoads and ito teach the method of claim 49 as applied above. Rhoads further discloses wherein the first restricted destination comprises one of a secured physical location, vehicle, Internet site, intranet site, computer program, and hardware component (col 3s, 16.4-64).

Claims 33, and 38-44 lack an inventive step under PCT Article 33(3) as being obvious over Rhoads in view of US 2006/0171571 A1 to Chan et al. (hereinafter "Chan").

Regarding claim 33, Rhoads discloses the method of claim 32 as applied above. Rhoads further discloses wherein weighting of the third measurement of the first biometric parameter is further based on the first value and weighting of the third measurement of the second biometric parameter is further based on the second value (col 13, in 15-19). However, Rhoads does not explicitly disclose further comprising, representing one or more quality metrics of the third measurement of the first biometric parameter with a first value, and representing one or more quality metrics of the third measurement of the second biometric parameter with a second value, where weighting of the third measurement of the first biometric parameter is further based on the first value and weighting of the third measurement of the second biometric parameter is further based on the second value. However, Chan does disclose further comprising: representing one or more quality metrics of the third measurement of the first biometric parameter with a first value; and representing one or more quality metrics of the third measurement of the second biometric parameter with a second value, wherein weighting of the third measurement of the first biometric parameter is further based on the lirst value and weighting of the third measurement of the second biometric parameter is further based on the second value (para (0022)) It would have been obvious to one having ordinary skill in the art to add Chan's disclosure of further comprising: representing one or more quality metrics of the third measurement of the first biometric parameter with a first value; and representing one or more quality metrics of the third measurement of the second biometric parameter a second value, wherein weighting of the third measurement of the first biometric parameter is further based on the first value and weighting of the third measurement of the second biometric parameter is further based on the second value to Rhoads' disclosure of the method of claim 32, wherein weighting of the third measurement of the first biometric parameter is further based on the first value and weighting of the third measurement of the second biometric parameter is further based on the second value to dynamically adjust the relative values involved in the comparing and the weighting of the measurements.

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Regarding claim 38, Rhoads discloses a method of authenticating a test subject as a user (col 19, in 20-22), the method comprising and providing a confidence level regarding whether the test subject is the user, wherein the confidence level is based on said comparing of the weighted combination of the template with the first and second sets of information (col 8, in 59 to col 9, in 7; col 23, in 7-12, 34-38), a first biometric parameter (col 12, in 53-57; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-57; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-57; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-57; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-57; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-57; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67) and information regarding a second biometric parameter (col 12, in 53-67; col 64, in 63-67; 63-67), obtaining a first set of information from the test subject regarding the first biometric parameter (col 12, in 53-57; col 64, in 63-67); obtaining a second set of information from the test subject regarding the second biometric parameter (col 12, in 53-57; col 64, in 63-67). comparing the template with a weighted combination of the first set of information and the second set of information, wherein the weighting of the first set of information is based on the first score and the weighting of the second set of information is based on the second score (col 8, in 59 to col 9, in 7; col 23, in 7-12, 34-38). However, Rhoads does not explicitly disclose associating a first score with the first set of information based on one or more quality metrics of the first set of information; associating a second score with the second set of information based on one or more quality metrics of the second set of information. However, Chan does disclose associating a first score with the first set of information (para [0022]); associating a second score with the second set of information based on one or more quality metrics of the second set of information (para [0022]). It would have been obvious to one having ordinary skill in the art to add Chan's disclosure of associating a first score with the first set of information based on one or more quality metrics of the first set of information, associating a second score with the second set of information based on one or more quality metrics of the second set of information to Rhoads' disclosure of a method of authenticating a test subject as a user, the method comprising, and providing a confidence level regarding whether the test subject is the user, wherein the confidence level is base on said comparing of the weighted combination of the template with the first and second sets of information, a first biometric parameter and information regarding a second biometric parameter, obtaining a first set of information from the test subject regarding the first biometric parameter; obtaining a second set of information from the test subject regarding the second biometric parameter, companing the template with a weighted combination of the first set of information and the second set of information, wherein the weighting of the first set of information is based on the first score and the weighting of the second set of information is based on the second score to for example dynamically adjust the weighting combination to provide a more accurate authentication of a test subject.

Regarding claim 39, Rhoads and Chan teach the method of claim 38 as applied above. Rhoads further discloses further comprising updating the template based on the first and second sets of information if the confidence level is above a threshold value (col 40, in 26-30).

Regarding taim 40, Phoads and Chan feach the method of claim 38 as applied above. Rocals further discloses further comprising unleting a fart future parameter prograd for this bometric parameter based on the seast one or more prior autheritations of the user, and altering a second fusion parameter regarding the second beometric parameter based on all least one or more prior autheritations of the altering as second fusion parameter regarding the second beometric parameter based on all least one or more prior autheritations of the original prior autheritation of the second secon

Regarding claim 41. Phoads and Chan teach the method of claim 68 as applied above. Phoads further discloses wherein the weighting of the first set of information is further based on the capacity of the first borneline parameter to uniquely identify an individual and the weighting of the second send of information is further based on the capacity of the second sendince parameter to uniquely identify an individual cross 56. In 1-51.

Regarding claim 42, Rhoads and Chan teach the method of claim 38 as applied above. Rhoads further discloses wherein the first score is substantially different from the second score (col 11, in 1-8) such that the confidence level is based more on the first set of information than on the second set of information (col 58, in 1-5).

Regarding claim 43, Phoads and Chan teach the method of claim 42 as applied above. Rhoads further discloses wherein the first score is sufficiently different from the second score (col 11, In 1-8) such that the confidence level is based substantially entirely on the first set of information (col 55. In 1-5).

Regarding claim 44, Phoads and Chan teach the method of claim 38 as applied above. Bhoads further discloses wherein the one or more quality metrics of the inst set of information and the one or more quality metrics of the second set of information are desired from the group consisting of the level of completeness of a set of information, the spinal-to-noise ratio of a set of information, the presence of a declaration of the second set of the second secon

Claims 1-50 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.